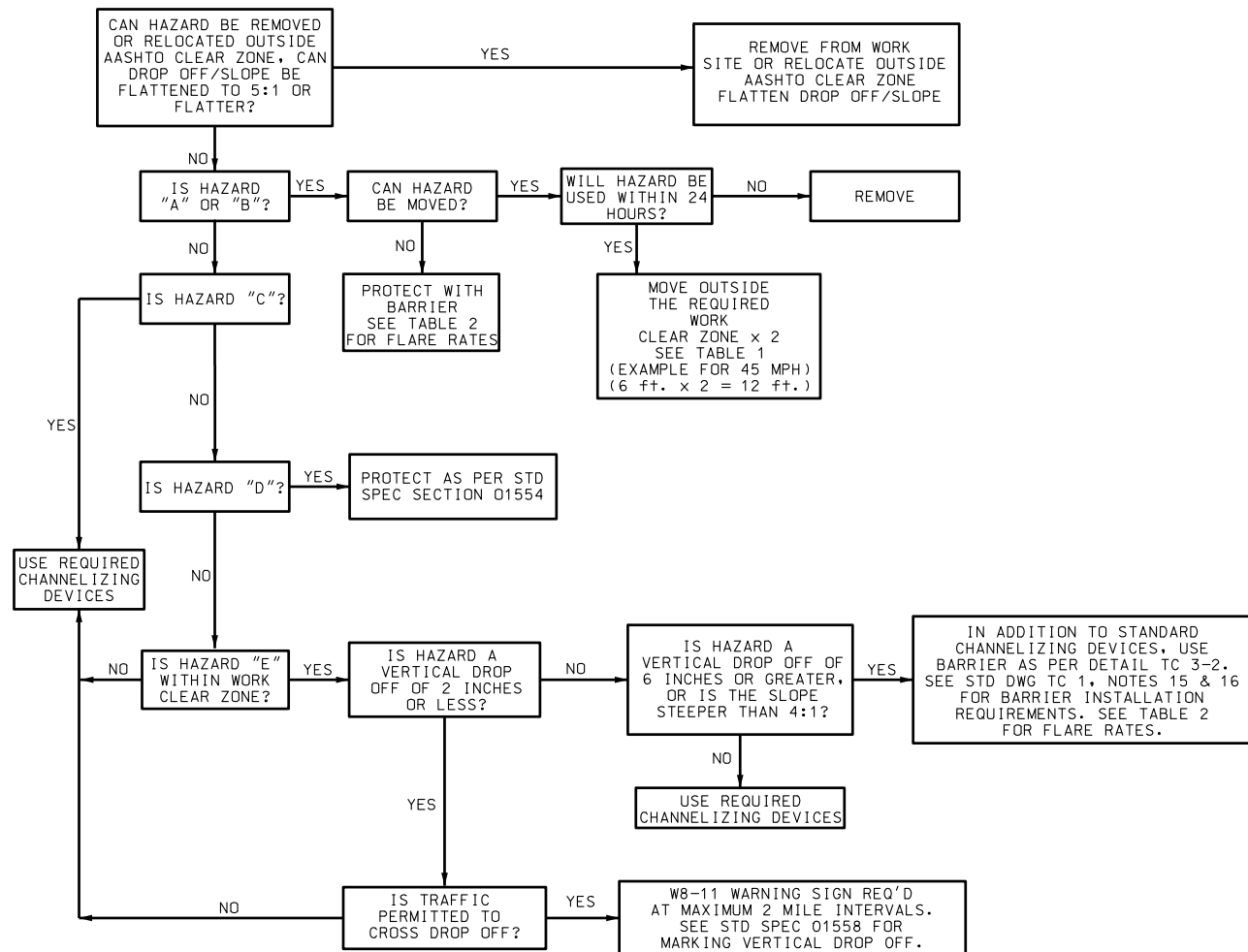


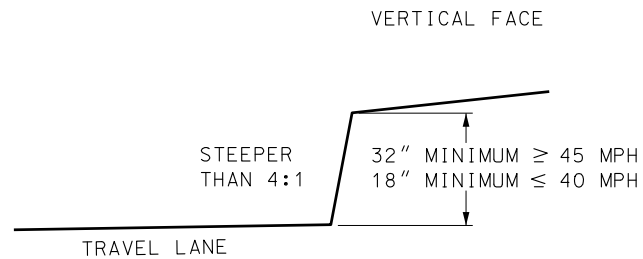
HAZARD MITIGATION

- USE DETAIL TC 3-1 AND TABLE 1 (WORK CLEAR ZONE) WHEN MITIGATING THE FOLLOWING HAZARDS:
 - NON-WORKING EQUIPMENT OR VEHICLES
 - STOCKPILED MATERIAL
 - WORKING VEHICLES AND WORKERS (NON-FLAGGERS)
 - OTHER OBJECTS AND FEATURES (I.E.: BRIDGE PARAPETS, BARRIER BLUNT ENDS, POLES)
 - SLOPES STEEPER THAN 4:1 OR A VERTICAL DROP OFF* OF LESS THAN 48 INCHES (SEE DETAIL TC 3-2 FOR EXAMPLES)
- MITIGATE ALL OTHER HAZARDS, SLOPES STEEPER THAN 4:1, OR VERTICAL DROP OFFS* 48 INCHES OR GREATER WITHIN AASHTO CLEAR ZONE AS APPROVED BY THE REGION TRAFFIC ENGINEER.

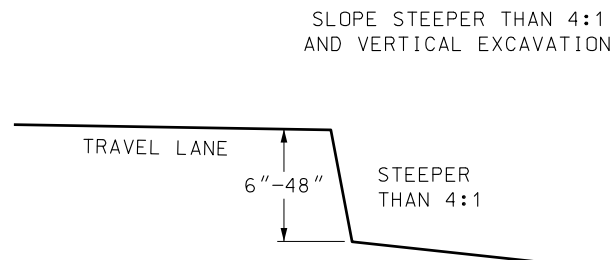


DETAIL TC 3-1

* DROP OFF IS A VERTICAL DIFFERENCE THAT MAY BE FROM THE WORK TO THE ROADWAY OR THE ROADWAY TO THE WORK.



BARRIER REQUIRED UNLESS FORESLOPE IS A SMOOTH UNIFORM SURFACE OF SUITABLE MATERIAL TO REMAIN STABLE AND NOT SPALL AT SPEED AND HEIGHT SHOWN



WITHIN WORK CLEAR ZONE USE BARRIER

OUTSIDE WORK CLEAR ZONE USE DEVICES

> 48" OBTAIN APPROVAL FROM REGION TRAFFIC ENGINEER

TYPE "E" VERTICAL DROP OFF HAZARDS DETAIL TC 3-2

TABLE 1 WORK CLEAR ZONE	
MPH	FEET
40 & LESS	3
45	6
50	6.5
55	7.5
60	8
65	8.5
70	9
75	10.5

TABLE 2 WORK ZONE FLARE RATES TEMPORARY BARRIER	
MPH	FLARE
70	20:1
65	18:1
60	17:1
55	16:1
50	14:1
45	10:1
40	6:1

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL
CHAIRMAN STANDARDS COMMITTEE
APPROVED
DEPUTY DIRECTOR

JAN 01 2008
DATE

JAN 01 2008
DATE

HAZARD
MITIGATION

STANDARD DRAWING TITLE

STD DWG
TC 3